

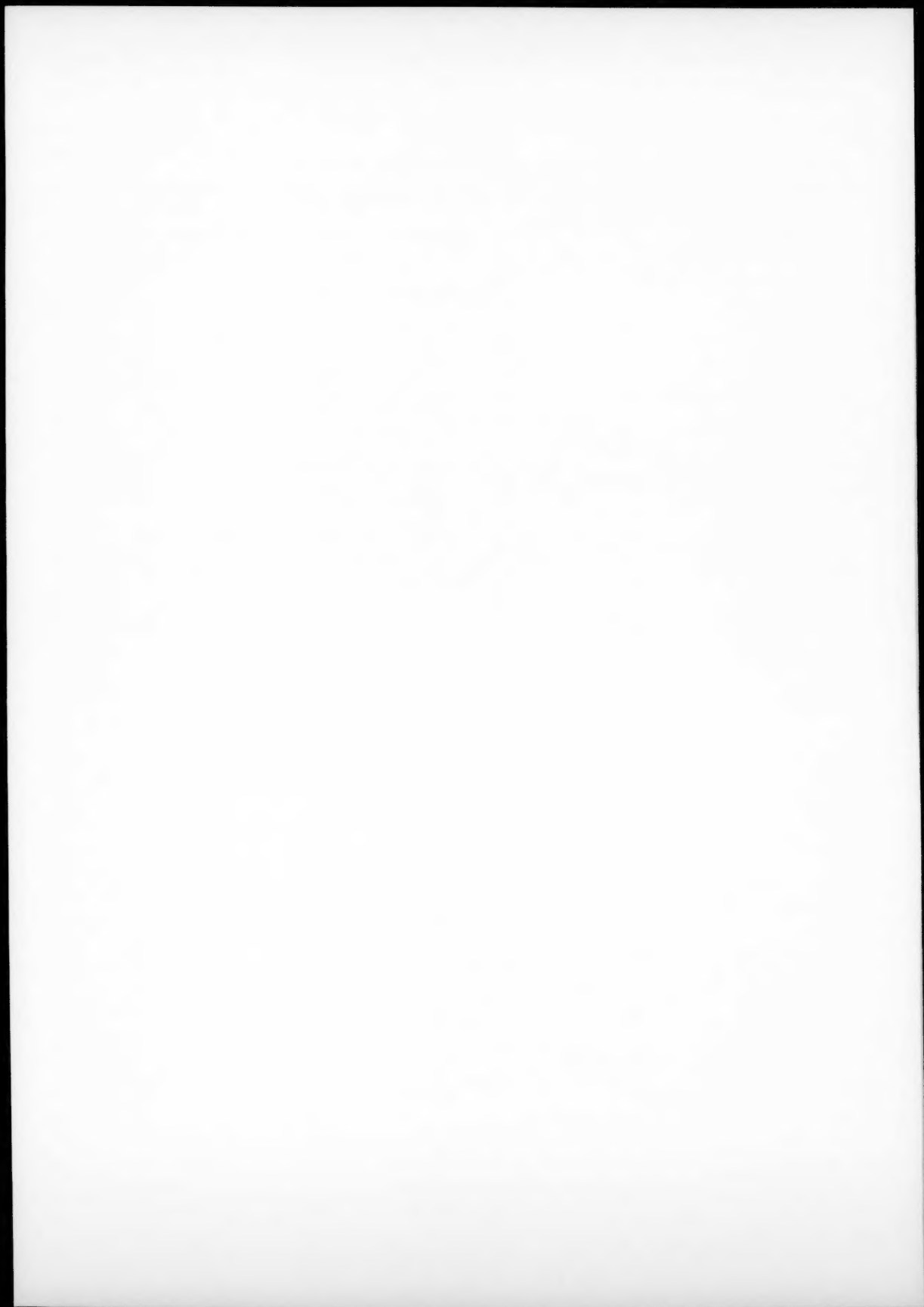


Author Index

- Aaltonen, M., *see* Kaasinen, E.
- Abe, N., and T. Kamba, A Web marketing system with automatic pricing 775
- Agrawal, R., *see* Shafer, J.C.
- Angele, J., *see* Staab, S.
- Anupam, V., J. Freire, B. Kumar, and D. Lieuwen, Automating Web navigation with the WebVCR 503
- Badros, G.J., JavaML: a markup language for Java source code 159
- Barton, J.J., *see* Huang, A.C.
- Basso, A., *see* Gruber, S.
- Bharat, K., SearchPad: explicit capture of search context to support Web search 493
- Bharat, K., *see* Stata, R.
- Bhatti, N., A. Bouch, and A. Kuchinsky, Integrating user-perceived quality into Web server design 1
- Bishop, M., *see* Hashii, B.
- Bongio, A., *see* Ceri, S.
- Bouch, A., *see* Bhatti, N.
- Bouvin, N.O., *see* Grønbaek, K.
- Brewington, B.E., and G. Cybenko, How dynamic is the Web? 257
- Broder, A., R. Kumar, F. Maghoul, P. Raghavan, S. Rajagopalan, R. Stata, A. Tomkins, and J. Wiener, Graph structure in the Web 309
- Brustoloni, J., and J. Garay, MicroSPs: providing convenient and low-cost high-bandwidth Internet access 789
- Buyukkorkten, O., H. Garcia-Molina, and A. Paepcke, Focused Web searching with PDAs 213
- Cawsey, A., Presenting tailored resource descriptions: will XSLT do the job? 713
- Ceri, S., P. Fraternali, and A. Bongio, Web Modeling Language (WebML): a modeling language for designing Web sites 137
- Chakrabarti, S., S. Srivastava, M. Subramanyam, and M. Tiwari, Using Memex to archive and mine community Web browsing experience 669
- Chang, S.G., *see* Krishnan, V.
- Chon, K., *see* Jung, J.
- Cohen, W.W., and W. Fan, Web-collaborative filtering: recommending music by crawling the Web 685
- Cupitt, J., *see* Martinez, K.
- Cybenko, G., *see* Brewington, B.E.
- Damiani, E., S. De Capitani di Vimercati, S. Paraboschi, and P. Samarati, Design and implementation of an access control processor for XML documents 59
- Dannstedt, L., *see* Forsberg, K.
- Davenport, G., *see* Pan, P.
- De Capitani di Vimercati, S., *see* Damiani, E.
- Decker, S., *see* Staab, S.
- Dong, Y., *see* Zhang, D.
- Erdmann, M., *see* Staab, S.
- Etzioni, O., *see* Sugiura, A.
- Fan, W., *see* Cohen, W.W.
- Feldmann, A., BLT: Bi-layer Tracing of HTTP and TCP/IP 321
- Fernández, M., W.-C. Tan, and D. Suciu, SilkRoute: trading between relations and XML 723
- Florescu, D., D. Kossmann, and I. Manolescu, Integrating keyword search into XML query processing 119
- Forsberg, K., and L. Dannstedt, Extensible use of RDF in a business context 347
- Fowler, S.L., A.-M.J. Novack, and M.J. Stillings, The evolution of a manufacturing Web site 365
- Fox, A., *see* Huang, A.C.
- Fraternali, P., *see* Ceri, S.
- Freire, J., *see* Anupam, V.
- Garay, J., *see* Brustoloni, J.
- Garcia-Molina, H., *see* Buyukkorkten, O.
- Garcia-Molina, H., *see* Hirai, J.
- Girardot, M., and N. Sundaresan, Millau: an encoding format for efficient representation and exchange of XML over the Web 747
- Goose, S., M. Newman, C. Schmidt, and L. Hue, Enhancing Web accessibility via the Vox Portal and a Web-hosted dynamic HTML ↔ VoxML converter 583
- Grønbaek, K., L. Sloth, and N.O. Bouvin, Open hypermedia as user controlled meta data for the Web 553
- Gruber, S., J. Rexford, and A. Basso, Protocol considerations for a prefix-caching proxy for multimedia streams 657

- Haasdijk, E., *see* van Amstel, P. 179
- Hashii, B., S. Malabarba, R. Pandey, and M. Bishop, Supporting reconfigurable security policies for mobile programs 77
- Hemmje, M., *see* Huang, L. 431
- Henzinger, M.R., A. Heydon, M. Mitzenmacher, and M. Najork, On near-uniform URL sampling 295
- Heydon, A., *see* Henzinger, M.R. 295
- Hirai, J., S. Raghavan, H. Garcia-Molina, and A. Paepcke, WebBase: a repository of Web pages 277
- Hirose, S.-i., *see* Hori, M. 197
- Hölscher, C., and G. Strube, Web search behavior of Internet experts and newbies 337
- Hori, M., G. Kondoh, K. Ono, S.-i. Hirose, and S. Singhal, Annotation-based Web content transcoding 197
- Hotho, A., *see* Staab, S. 473
- Huang, A.C., B.C. Ling, J.J. Barton, and A. Fox, Running the Web backwards: appliance data services 619
- Huang, L., M. Hemmje, and E.J. Neuhold, ADMIRE: an adaptive data model for meta search engines 431
- Hue, L., *see* Goose, S. 583
- Janssen, B., *see* Spreitzer, M. 593
- Jung, J., D. Lee, and K. Chon, Proactive Web caching with cumulative prefetching for large multimedia data 645
- Kaasinen, E., M. Aaltonen, J. Kolari, S. Melakoski, and T. Laakko, Two approaches to bringing Internet services to WAP devices 231
- Kamba, T., *see* Abe, N. 775
- Kato, H., *see* Nakayama, T. 811
- Kolari, J., *see* Kaasinen, E. 231
- Kondoh, G., *see* Hori, M. 197
- Kormann, D.P., and A.D. Rubin, Risks of the Passport single signon protocol 51
- Kossmann, D., *see* Florescu, D. 119
- Krishnamurthy, B., and C.E. Wills, Analyzing factors that influence end-to-end Web performance 17
- Krishnan, V., and S.G. Chang, Customized Internet radio 609
- Kuchinsky, A., *see* Bhatti, N. 1
- Kuilman, D., *see* van Amstel, P. 179
- Kumar, B., *see* Anupam, V. 503
- Kumar, R., *see* Broder, A. 309
- Laakko, T., *see* Kaasinen, E. 231
- Lamersdorf, W., *see* Weinreich, H. 403
- Lee, D., *see* Jung, J. 645
- Lempel, R., and S. Moran, The stochastic approach for link-structure analysis (SALSA) and the TKC effect 387
- Lieuwen, D., *see* Anupam, V. 503
- Ling, B.C., *see* Huang, A.C. 619
- Maedche, A., *see* Staab, S. 473
- Maghoul, F., *see* Broder, A. 309
- Maghoul, F., *see* Stata, R. 247
- Malabarba, S., *see* Hashii, B. 77
- Manolescu, I., *see* Florescu, D. 119
- Martinez, K., S. Perry, and J. Cupitt, Object browsing using the Internet Imaging Protocol 803
- Melakoski, S., *see* Kaasinen, E. 231
- Mendelzon, A.O., *see* Rafiei, D. 823
- Mitzenmacher, M., *see* Henzinger, M.R. 295
- Moran, S., *see* Lempel, R. 387
- Mukherjee, S., WTMS: a system for collecting and analyzing topic-specific Web information 457
- Najork, M., *see* Henzinger, M.R. 295
- Nakayama, T., H. Kato, and Y. Yamane, Discovering the gap between Web site designers' expectations and users' behavior 811
- Neuhold, E.J., *see* Huang, L. 431
- Newman, M., *see* Goose, S. 583
- Novack, A.-M.J., *see* Fowler, S.L. 365
- Ono, K., *see* Hori, M. 197
- Paepcke, A., *see* Buyukkotken, O. 213
- Paepcke, A., *see* Hirai, J. 277
- Pan, P., and G. Davenport, I-Views: a community-oriented system for sharing streaming video on the Internet 567
- Pandey, R., *see* Hashii, B. 77
- Paraboschi, S., *see* Damiani, E. 59
- Perry, S., *see* Martinez, K. 803
- Phelps, T.A., and R. Wilensky, Robust intra-document locations 105
- Rafiei, D., and A.O. Mendelzon, What is this page known for? Computing Web page reputations 823
- Raghavan, P., *see* Broder, A. 309
- Raghavan, S., *see* Hirai, J. 277
- Rajagopalan, S., *see* Broder, A. 309
- Rexford, J., *see* Gruber, S. 657
- Rodriguez, P., and S. Sibal, SPREAD: scalable platform for reliable and efficient automated distribution 33
- Rollins, S., and N. Sundaresan, AVoN calling: AXL for voice-enabled Web navigation 533
- Rubin, A.D., *see* Kormann, D.P. 51
- Samarati, P., *see* Damiani, E. 59
- Sarukkai, R.R., Link prediction and path analysis using Markov chains 377
- Schmidt, C., *see* Goose, S. 583
- Schnurr, H.-P., *see* Staab, S. 473
- Shafer, J.C., and R. Agrawal, Continuous querying in database-centric Web applications 519
- Sibal, S., *see* Rodriguez, P. 33
- Singhal, S., *see* Hori, M. 197
- Sloth, L., *see* Grønbaek, K. 553
- Spertus, E., and L.A. Stein, Squeal: a structured query language for the Web 95

- Spreitzer, M., and B. Janssen, HTTP 'Next Generation' 593
- Srivastava, S., *see* Chakrabarti, S. 669
- Staab, S., J. Angele, S. Decker, M. Erdmann, A. Hotho, A. Maedche, H.-P. Schnurr, R. Studer, and Y. Sure, Semantic community Web portals 473
- Stata, R., K. Bharat, and F. Maghoul, The Term Vector Database: fast access to indexing terms for Web pages 247
- Stata, R., *see* Broder, A. 309
- Stein, L.A., *see* Spertus, E. 95
- Stillings, M.J., *see* Fowler, S.L. 365
- Strube, G., *see* Hölscher, C. 337
- Studer, R., *see* Staab, S. 473
- Subramanyam, M., *see* Chakrabarti, S. 669
- Suciu, D., *see* Fernández, M. 723
- Sugiura, A., and O. Etzioni, Query routing for Web search engines: architecture and experiments 417
- Sundaresan, N., *see* Girardot, M. 747
- Sundaresan, N., and J. Yi, Mining the Web for relations 699
- Sundaresan, N., *see* Rollins, S. 533
- Sure, Y., *see* Staab, S. 473
- Tan, W.-C., *see* Fernández, M. 723
- Tiwari, M., *see* Chakrabarti, S. 669
- Tomkins, A., *see* Broder, A. 309
- Tomlin, J.A., An entropy approach to unintrusive targeted advertising on the Web 767
- van Amstel, P., P. van der Eijk, E. Haasdijk, and D. Kuilman, An interchange format for cross-media personalized publishing 179
- van der Eijk, P., *see* van Amstel, P. 179
- Weinreich, H., and W. Lamersdorf, Concepts for improved visualization of Web link attributes 403
- Wiener, J., *see* Broder, A. 309
- Wilensky, R., *see* Phelps, T.A. 105
- Wills, C.E., *see* Krishnamurthy, B. 17
- Wu, K.-L., and P.S. Yu, Latency-sensitive hashing for collaborative Web caching 633
- Yamane, Y., *see* Nakayama, T. 811
- Yi, J., *see* Sundaresan, N. 699
- Yu, P.S., *see* Wu, K.-L. 633
- Zhang, D., and Y. Dong, An efficient algorithm to rank Web resources 449





Subject Index

- Abstract syntax tree representation, 159
- Access co-occurrence, 811
- Access control, 77
- Access control model, 59
- Accessibility, 533, 583
- Active measurement, 17
- Adaptive navigation, 377
- Adaptive security policy, 77
- Affiliate programs, 503
- Annotation, 105, 197
- Architecture, 277
- Audio, 533
- Authentication, 51
- Authoring system, 197
- Authorities, 457
- Automated, 33
- Automatic pricing, 775
- Binary XML, 747
- Bookmarking, 493
- Bookmarks, 503
- Broken links, 365
- Browsing, 583
- Browsing assistant, 669
- Caching, 33, 657
- Collaboration, 473
- Collaborative filtering, 567
- Collaborative taxonomy synthesis, 669
- Collaborative Web caching, 633
- Community memory, 669
- Compression, 747
- Conceptual relevance, 811
- Consistency, 33
- Content adaptation, 197
- Content distribution, 33
- Content management, 365
- Cookies, 493
- Crawling, 699
- Cumulative, 645
- Customer relationship management (CRM), 179
- Customization, 609
- Data availability, 645
- Data collection, 493
- Data exchange, 723
- Data model, 431
- Database, 519
- Design tools, 137
- Diameter, 309
- Distributed objects, 593
- Document management, 257
- Duality, 699
- Dynamic classes, 77
- Dynamic content, 503, 609
- E-commerce, 1, 51, 179, 503, 767, 775, 789
- End-to-end performance, 17
- Entropy, 767
- Equilibrium, 767
- Evaluation, 231
- Expertise, 337
- Extensible markup language (XML), 179
- Focused crawling, 457
- Full-text index, 119
- Graph algorithms, 457
- Graph structure, 309
- Handheld computers, 213
- Hierarchy, 33
- HTML/WML conversion, 231
- HTTP, 321
- HTTP-NG, 593
- HTTP request, 377
- Hubs, 457
- Hubs and authorities, 377, 387, 823
- Hyperlinks, 95, 105
- Hypermedia design methodologies, 137
- Hypertext, 95, 403
- Information appliances, 619
- Information integration, 473
- Information retrieval, 337, 387, 713
- Information visualization, 457
- Infrastructure enablement, 619
- Interactive, 519
- Interactive electronic technical manuals (IETM), 179
- Intermediary, 197

- Internet domain distribution, 295
- Internet Imaging Protocol, 803
- Internet radio, 609
- Internet search engines, 337
- Internet Service Provider, 789
- Internet services, 619
- Intranet, 347
- Intranet solutions, 365
- Java, 77, 159, 803
- JavaScript, 493, 803
- Jikes compiler, 159
- Latency-sensitive hashing, 633
- Learning, 775
- Link prediction, 377
- Link structure analysis, 387
- Links, 403
- Load balancing, 633
- Location, 105
- Logfile analysis, 337
- Machine, 775
- Markov chains, 377
- Media delivery, 609
- Media management, 609
- Mediator, 431
- Meta search engine, 431
- Metadata, 347, 553, 713
- Mining, 699
- Mobile access, 231, 789
- Mobile code, 77
- Mobile computing, 213
- Monitoring, 257
- Multi-modal, 533
- Multimedia streaming, 657
- Multivalent, 105
- Navigation, 137, 403
- Notification, 503
- Object movies, 803
- On-line advertising, 767
- On-line learning, 775
- On-line marketing, 775
- Ontology, 473
- Open hypermedia, 553
- Optimization, 767
- Packet traces, 321
- Page classification, 247
- PageRank, 823
- Palm Pilot, 213
- Performance, 633
- Personal digital assistants, 213
- Personalization, 179, 503, 713
- Portable devices, 533
- Predictive data mining (PDM), 179
- Prefetching, 645
- Proxy, 657
- Proxy caching, 633
- Proxy server, 747
- Quality of service, 1
- Queries, 493
- Query capability mapping, 431
- Query expansion, 417
- Query routing, 417
- Random walks, 295, 387, 823
- Rank algorithm, 449
- RDF, 347, 713
- Recommender systems, 95
- Regression analysis, 811
- Relation, 699
- Relational databases, 95, 723
- Relevance information, 493
- Replication, 33
- Repository, 277
- Reputation ranking, 823
- Resource discovery, 449
- Retelling stories, 567
- Robust, 105
- RPC, 593, 747
- RTCP, 657
- RTP, 657
- RTSP, 657
- SALSA, 387
- SAP, 609
- SDP, 609
- Search, 519
- Search context, 493
- Search engine size, 295
- Search engines, 417, 449, 493
- Searching, 823
- Security, 59
- Security and privacy, 789
- Semantic Web, 553
- Semi-structured information, 95
- Server design, 1
- Sharable video, 567
- Single signon, 51
- Smart bookmarks, 503
- Software-engineering analysis, 159
- Speech, 583
- SQL, 95
- Statistics, 767
- Storage management, 277
- Streaming, 747
- Streaming media, 567
- Structure, 95, 583
- TCP, 321

- Term vectors, 247
- The Boeing Company, 365
- Tokenization, 747
- Topic distillation, 247
- Topic management, 457
- Tour generation, 377
- Trace collection, 321
- Tutorials, 503
- Type system, 593
- Typed links, 403

- Ubiquitous computing, 619
- URL sampling, 295
- Usability, 231, 403
- User perception, 1

- Virtual community, 567
- Voice browsing, 533
- VoxML, 583

- WAP, 231
- Web, 95, 321, 449
- Web applications, 593
- Web clipping, 503
- Web connectivity, 247
- Web dynamics, 257
- Web measurement, 309
- Web performance, 17
- Web portal, 473
- Web protocols, 17
- Web proxy caching, 645
- Web search, 247, 417
- Web security, 51
- Web site design, 811
- Web site management, 473
- WebBase, 277
- WebDAV, 553
- Wing Responsibility Center, 365
- World Wide Web, 457, 767
- Wrappers, 431, 503

- XLink, 553
- XML, 59, 137, 159, 347, 553, 699, 723
- XML queries, 723
- XML query processing, 119
- XSL, 713